***Report of intern with Palle Srujana***

***Introduction***

***Knowing about PALLE SRUJANA:***

Palle Srujana is a voluntary organization which works for the promotion of Grassroots Innovators. Initially I came to know about Palle Srujana through Brigadier(Retd) Ganesham Sir when he came to our college for the National social entrepreneurship summit RENAISSANCE'16. I felt interested in the activities taken up by Palle Srujana after attending the session about grassroots innovations by Ganesham sir. Furthermore, I was greatly fascinated by the experiences of our seniors who already worked with Palle Srujana. So I along with two of my friends decided to spend our winter vacation working with Palle Srujana . I am glad and thankful to Palle Srujana and Ganesham sir for giving us this opportunity to work with them.

***Descriptions and Experiences during our intern with Palle Srujana:***

**16th Dec, 2016:**

We met Brigadier Ganesham sir and had a great talk with him about our society and how our life is interlinked with nature. We came to know in detail about what all activities Palle Srujana does.

**17th Dec, 2016:**

We saw all the innovations which are present in Palle Srujana office. We were amazed seeing and knowing those grassroots innovations. We were explained on what we are going to work during our internship.

**19th Dec, 2016:**

We visited Mr. Mahipal Chary, a grassroots innovator at Parkala in Warangal. As his father 's occupation was agriculture, he was aware of all the obstacles that farmers would face. Along with farming he used to repair power spray engines and even bikes, thus his knowledge in engines is immense . As he started farming, weeding became a huge obstacle in his way due to lack of man power. This problem inspired him to think and later he turned into an innovator .He had put his heart and soul in finding a solution to this problem. After two years of hard work, his thought took the shape of his first innovation, the mini cultivator.

Mini cultivator, a machine which basically works as a weeder. This is used to weed in farms of cotton. It has two wheels, a china engine, adjustable ploughs of two types, a clutch at the handle, an accelerator fixed to the engine. The machine is used as a motor to pump water by fixing extra equipment to the engine and also used to plough the land. This weeder has an additional wheel which helps in adjusting the depth to which the land should be ploughed.

His next innovation is paddy weeder .It has three tyres, a clutch and an accelerator at the handle, a power spray engine which runs on petrol. He is presently working on sitting cultivator. It's working is similar to that of mini cultivator but has a provision for sitting. This special feature helps even the aged people to weed their farms easily.

 These machines are very much useful as they are affordable, light in weight comparatively, less time consuming and high efficiency. In his journey of all these innovations, he faced many obstacles, but he just went on working .This shows his high determination and dedication levels. After getting tied up with Palle Srujana he got much support for his further innovations. He has done such great innovations without much education .He proved that education is not a barrier to invent any wonder and only passion to learn new things is more important .For today's youth he sets an example to follow.

It was glad meeting him. We were really motivated by his thoughts and innovations .On the whole we had a great experience and bagged some good ideas and memories.

**21st Dec, 2016:**

Translated Palle Srujana magazine article from Telugu to English. The article was about mini boom sprayer made by innovator Subani for addressing the problem of farmers in spraying pesticides to the crop.

**22nd Dec, 2016:**

We visited Mr. Bommagani Mallesh, another amazing grassroots innovator at Boduppal. With his knowledge on solar panels and with his experience of work in electrical equipments, he created wonders .He got his education done in Nalgonda. Seeing all the problems faced by farmers in his village, he got inspired to innovate things which would solve their problems. Manual pump, pedal pump ,remote to switch on and off tube lights and fans, seed sprayer, urea sprayer ,solar agriculture power sprayer and the list goes on.

One of his innovations is a manual pump which works on the mechanism of cycle pump .This pump is used to pump water from a depth of 20 feet. Pistons are fixed inside the pump to draw water .The advanced version of this pump is pedal pump in which the name itself signifies that water is drawn by pedaling. This pedal pump is used in agricultural fields .The major advantages of these pumps are they can be moved easily from one place to another. These innovations eased the lives of farmers.

His new innovation is a machine which implants seeds. It has two wheels, a plough, a hopper to carry seeds. Each variety and size of seeds has a different kind of equipment (a small wheel) which can be changed in the machine. This reduces the man power, maintains uniformity in implanting seeds, economical.

**24th Dec, 2016:**

Had a talk with Brigadier Ganesham sir and continued to translate web articles of NIF from English to Telugu which would facilitate the farmers in Andhra Pradesh and Telangana to go through the grassroots innovations easily.

**25th Dec, 2016:**

Continued to translate web articles of NIF from home. Also worked on the translation of Palle Srujana article on Gas oven which can be put on stove and bakery products can be easily made at home .This grassroots innovation created employment to many unemployed.

**26th Dec, 2016:**

Web translation of NIF article on Herba glow which is really a great grassroots innovation made of different herbs for the cure of skin problems.

**27th Dec, 2016:**

We went to ZPHigh School with one of the active volunteers of Palle Srujana, Akhila to collect ideas from creative minds for IGNITE'17. We were spell bound when we heard the answers given by those young minds to the problems encountered in our daily life. The solutions proposed by them were so simple and sounded to be feasible which shows their hidden creativity. Their intellect and enthusiasm was so amazing such that we were also filled with same enthusiasm and joy at the end of the day. Children were so brilliant and the hospitality they have extended towards us was remarkable.

**28th Dec, 2016:**

We were given a chance to do technical documentation of two innovations of the grassroots innovator Dr.Bommagani Mallesh. We visited him and studied the innovations in detail. We tried our level best to acknowledge him with correct information about technical documentation .We got a brief idea about his innovations after spending time with the innovator.

**29th Dec, 2016:**

We worked on documenting Manual hand pump, which worked on the mechanism of cycle pump. The innovation would reduce the accidents occur during drawing of water from sumps. This does not require any electricity. We also worked on web translation of NIF articles.

**30th Dec, 2016:**

Spent our day working on documenting the manual seed tiller. This tiller reduces the manpower, expenditure for a farmer. It has the provision to control the count of seeds sown and can work for different varieties of seeds. Translated NIF article .

**31st Dec, 2016:**

This day is the last day of the week, month as well as year, this also turned out to be last day of our intern also. We did not come to know how fast the time ran. We are filled with contentment and joy that we had learned something new.

**Impressions and takeaways:**

* The time we worked with Palle Srujana is memorable.
* We got a chance to learn many new things which would not be thought anywhere else in life.
* We could personally meet few innovators which gave us really good experiences and knowledge.
* Got a chance to improve writing skills.
* Learned to respect the knowledge of the innovators.
* Realized that education is not a barrier for anyone to achieve anything. Got acknowledged with the high dedication and determination levels that a person posses to achieve their goals.
* We came to know the real life problems which made normal people to become grassroots innovators which was very motivating.
* Brilliance among children was personally experienced by us through which we realized that creative minds of India if given an opportunity would do wonders.
* We were highly motivated by the thoughts of Ganesham sir. His thoughts conveyed us to do the work in such a way that it would benefit the society and does not harm our mother nature.
* Met amazing people during our time spent in Palle Srujana.
* We bagged many good memories and experiences which would certainly help us to lead a better life.

I am really thankful to Brigadier(Retd) Ganesham sir for giving us this opportunity to work with Palle Srujana. It was great working with Palle Srujana under the guidance of Brigadier Ganesham sir.

I would always look forward to work with Palle Srujana.

-Vanaja Gopisetti,VNIT